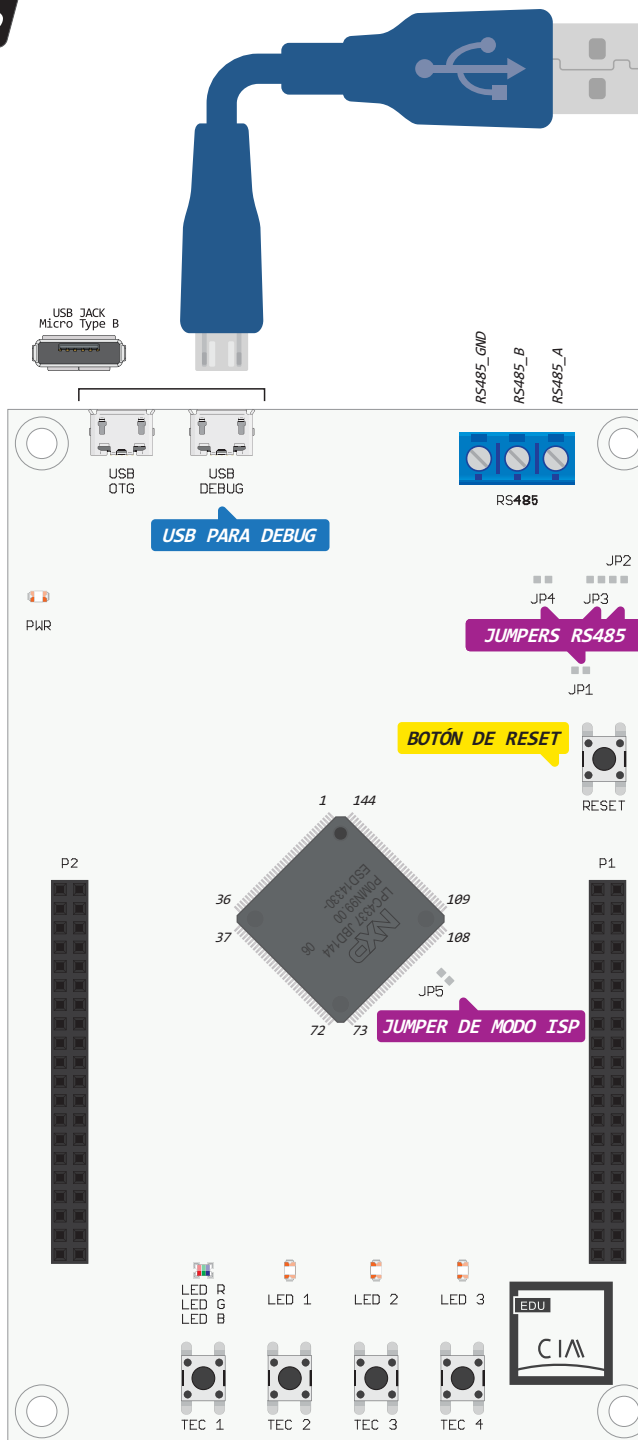


<span style="background-color: red; color: white;"> </span> Alimentación	<span style="background-color: yellow; color: black;"> </span> Control e ISP
<span style="background-color: black; color: white;"> </span> Tierra Digital	<span style="background-color: blue; color: white;"> </span> Ethernet
<span style="background-color: #d3d3d3; color: black;"> </span> Pin E/S GPIO	<span style="background-color: #add8e6; color: black;"> </span> Pin Serie
<span style="background-color: #483d8b; color: white;"> </span> Tierra Analógica	<span style="background-color: #90ee90; color: black;"> </span> Pin LCD
<span style="background-color: #32cd32; color: black;"> </span> Pin Analógico	<span style="background-color: #ffa500; color: black;"> </span> Pin Teclado



**P2**

<span style="background-color: red; color: white;">3V3</span>	1	2	<span style="background-color: red; color: white;">5V</span>
<span style="background-color: black; color: white;">GND</span>	3	4	<span style="background-color: blue; color: white;">RXD1</span>
<span style="background-color: black; color: white;">GND</span>	5	6	<span style="background-color: blue; color: white;">TX_EN</span>
<span style="background-color: black; color: white;">GND</span>	7	8	<span style="background-color: blue; color: white;">MDC</span>
<span style="background-color: blue; color: white;">RXD0</span>	9	10	<span style="background-color: blue; color: white;">CRS_DV</span>
<span style="background-color: black; color: white;">GND</span>	11	12	<span style="background-color: blue; color: white;">MDIO</span>
<span style="background-color: black; color: white;">GND</span>	13	14	<span style="background-color: blue; color: white;">TXD0</span>
<span style="background-color: blue; color: white;">REF_CLK</span>	15	16	<span style="background-color: blue; color: white;">TXD1</span>
<span style="background-color: black; color: white;">GND</span>	17	18	<span style="background-color: #add8e6; color: black;">SPL_MISO</span>
<span style="background-color: black; color: white;">GND</span>	19	20	<span style="background-color: #add8e6; color: black;">SPL_SCK</span>
<span style="background-color: #add8e6; color: black;">SPL_MOSI</span>	21	22	<span style="background-color: #90ee90; color: black;">LCD4</span>
<span style="background-color: #90ee90; color: black;">LCD_EN</span>	23	24	<span style="background-color: #90ee90; color: black;">LCD_RS</span>
<span style="background-color: black; color: white;">GND</span>	25	26	<span style="background-color: #90ee90; color: black;">LCD3</span>
<span style="background-color: black; color: white;">GND</span>	27	28	<span style="background-color: #90ee90; color: black;">LCD2</span>
<span style="background-color: #d3d3d3; color: black;">GPIO0</span>	29	30	<span style="background-color: #d3d3d3; color: black;">LCD1</span>
<span style="background-color: #d3d3d3; color: black;">GPIO2</span>	31	32	<span style="background-color: #d3d3d3; color: black;">GPIO1</span>
<span style="background-color: #d3d3d3; color: black;">GPIO4</span>	33	34	<span style="background-color: #d3d3d3; color: black;">GPIO3</span>
<span style="background-color: #d3d3d3; color: black;">GPIO6</span>	35	36	<span style="background-color: #d3d3d3; color: black;">GPIO5</span>
<span style="background-color: black; color: white;">GND</span>	37	38	<span style="background-color: #d3d3d3; color: black;">GPIO7</span>
<span style="background-color: black; color: white;">GND</span>	39	40	<span style="background-color: #d3d3d3; color: black;">GPIO8</span>

Tira de 40 pines hembra de 0.1"(2,54 mm) de espaciado

**P1**

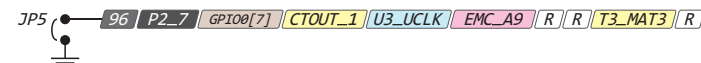
<span style="background-color: red; color: white;">3V3</span>	1	2	<span style="background-color: red; color: white;">5V</span>
<span style="background-color: yellow; color: black;">RESET</span>	3	4	<span style="background-color: black; color: white;">GND</span>
<span style="background-color: yellow; color: black;">ISP</span>	5	6	<span style="background-color: yellow; color: black;">WAKEUP</span>
<span style="background-color: #483d8b; color: white;">GND_A</span>	7	8	<span style="background-color: #483d8b; color: white;">GND_A</span>
<span style="background-color: #32cd32; color: black;">CH3</span>	9	10	<span style="background-color: #483d8b; color: white;">GND_A</span>
<span style="background-color: #32cd32; color: black;">CH2</span>	11	12	<span style="background-color: #483d8b; color: white;">GND_A</span>
<span style="background-color: #32cd32; color: black;">CH1</span>	13	14	<span style="background-color: #483d8b; color: white;">GND_A</span>
<span style="background-color: #32cd32; color: black;">DAC</span>	15	16	<span style="background-color: #483d8b; color: white;">GND_A</span>
<span style="background-color: #32cd32; color: black;">VDDA</span>	17	18	<span style="background-color: #483d8b; color: white;">GND_A</span>
<span style="background-color: #add8e6; color: black;">I2C_SDA</span>	19	20	<span style="background-color: black; color: white;">GND</span>
<span style="background-color: #add8e6; color: black;">I2C_SCL</span>	21	22	<span style="background-color: black; color: white;">GND</span>
<span style="background-color: #add8e6; color: black;">232_RX</span>	23	24	<span style="background-color: black; color: white;">GND</span>
<span style="background-color: #add8e6; color: black;">232_TX</span>	25	26	<span style="background-color: black; color: white;">GND</span>
<span style="background-color: #add8e6; color: black;">CAN_RD</span>	27	28	<span style="background-color: black; color: white;">GND</span>
<span style="background-color: #add8e6; color: black;">CAN_TD</span>	29	30	<span style="background-color: black; color: white;">GND</span>
<span style="background-color: #ffa500; color: black;">T_COL1</span>	31	32	<span style="background-color: black; color: white;">GND</span>
<span style="background-color: #ffa500; color: black;">T_FIL0</span>	33	34	<span style="background-color: #ffa500; color: black;">T_COL2</span>
<span style="background-color: #ffa500; color: black;">T_FIL3</span>	35	36	<span style="background-color: #ffa500; color: black;">T_FIL1</span>
<span style="background-color: #ffa500; color: black;">T_FIL2</span>	37	38	<span style="background-color: black; color: white;">GND</span>
<span style="background-color: #ffa500; color: black;">T_COL0</span>	39	40	<span style="background-color: black; color: white;">GND</span>

Tira de 40 pines hembra de 0.1"(2,54 mm) de espaciado


















# PINES UTILIZADOS DEL NXP LPC4337 JBD144



Para entrar a **modo ISP** o bootear de una fuente externa, este pin debe estar puesto a tierra al resetear el microcontrolador.



JP1 Jumpers de RS485  
JP2 Cortocircuitar JP1, JP2 y JP4 en caso  
JP3 que sea el último nodo de la red.  
JP4

- |  |                                    |   |   |   |                           |
|--|------------------------------------|---|---|---|---------------------------|
|  | Numero de Pin del Microcontrolador |  | Ethernet  |  | Temporizador/Contador     |
|  | Nombre de Pin del Microcontrolador |  | LCD   |  | PLM para Control de Motor |
|  | E/S Digital GPIO                   |  | Trace Data  |  | Memoria externa           |
|  | E/S Digital SGPIO                  |  | WakeUp  |  | Analógico ADC/DAC         |
|  | SD                                 |  | Reset   |  | Función Reservada         |
|  | Serie (USART, I2C, SPI o USB).     |  | Entrada de interrupción externa a Interrupción No Enmascarable (NMI). |   |                           |